贵州沟螺属一新种记述 (前鳃亚纲,中腹足目,环口螺科)

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摘 要 在整理贵州省荔波县茂兰喀斯特森林自然保护区陆生贝类标本时,经鉴定发现 1 新种,即茂兰沟螺 Diaryx madanensis sp. nov. ,文中对新种形态特征、栖息环境进行了描述,并对其相似种进行了分析和讨论。

关键词 前鳃亚纲, 中腹足目, 环口螺科, 沟螺属, 新种.

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在整理贵州省荔波县茂兰喀斯特森林自然保护区陆生贝类标本时,经鉴定发现环口螺科、沟螺属1新种,即茂兰沟螺 *Dioryx madanensis* sp. nov.,报道如下。

茂兰沟螺,新种 Dioryx maolanensis **sp. nov.** (图 1~6)

正模标本, 売高 5.16 mm, 売宽 4.16 mm, 売口 直径 1.33 mm。 副模标本 6 个, 売高 4.50~ 5.33 mm, 壳宽 3.5~ 5.16 mm, 壳口直径 1.00~ 1.67 mm, 壳口宽 1.33 mm, 2001 年 7 月 9 日采自贵州省荔波县 茂兰石灰岩森林中。正、副模标本均保存在中国科学院动物研究所(北京)。





图 1~ 2 茂兰沟螺, 新种 Dioryx maolanensis sp. nov.

1. 贝壳侧面观 (lateral view of shell) 2. 贝壳右侧面观 (right lateral view of shell)

贝壳小型,右旋,壳质厚,坚实,呈圆球形,有3½个螺层,各螺层均膨胀,体螺层特膨大,但至壳口处紧缩,呈1凹槽。壳顶钝,胚螺层光滑,缝合线深。壳面呈淡黄色,陈旧标本呈灰白色,并有稀疏而明显成纵行排列的近乎肋状条纹的生长线。

在体螺层背侧面靠近壳口处缝合线上有1细管状的呼吸管(长0.83~1.00 mm)。壳口呈圆形,口缘外折并延长,形成约0.8 mm的口颈部,口唇厚,外卷形成双唇,其边缘锋利,并与体螺层分离。厣较厚为角质,黄褐色,与壳口同大,半透明,有3层,

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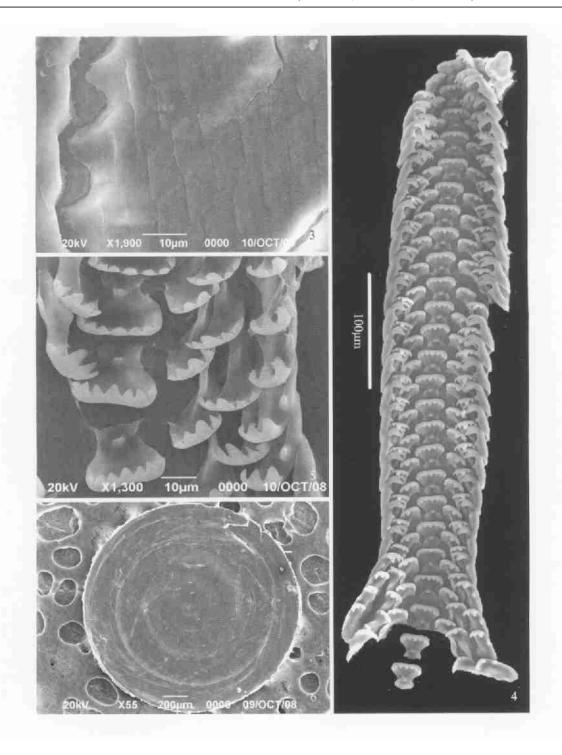


图 3~ 6 茂兰河螺, 新种 Diaryx maolanensis sp. nov.

3. 颚片 (jaw) 4. 齿舌 (radula) 5. 齿舌放大 (radula enlarged) 6. 厣 (operculum)

内层无螺旋纹、光滑、外层有一核心、并有明显的螺旋纹。脐孔小而深、略被小轴缘遮盖、呈缝隙状。颚片薄片状、透明、其表面布满鳞片状结构。齿舌呈带状、角质、有中央齿 1 枚、其尖端有 7 枚小齿;侧齿 2 枚,其尖端有 5 枚小齿;缘齿 2 枚,其尖端有 4 枚小齿。

栖息环境 常生活在阴暗潮湿多石灰岩的山区和丘陵地带,一般栖息于石灰岩多腐殖质的缝隙、

松软潮湿的土壤表面,落叶、腐木或石块下。

讨论 新种与乳阳沟螺 Dioryx nuyang on six Hu, Yin and Chen, 2004 相近似,但新种贝壳较小(壳高 5. 16 mm,壳宽 4. 16 mm,壳口直径 1. 33 mm),有 3 $\frac{1}{2}$ 个螺层,呼吸管长 0. 83~ 1. 00 mm,壳面有稀疏而明显成纵行排列的近乎肋状条纹和生长线,颚片薄片状,透明,其表面布满鳞片状结构。齿舌呈带状,

角质,有中央齿 1 枚,其尖端有 7 枚小齿,侧齿 2 枚,其尖端有 5 枚小齿,缘齿 2 枚,其尖端有 4 枚小齿。后者个体较大(壳高 7.10 mm,壳宽 5.50 mm,壳口直径 1.75 mm),有 $4~4\frac{1}{2}$ 个螺层,呼吸管长 2.80 mm。壳面无成纵行排列的近乎肋状条纹和生长线。故有所区别。

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A NEW SPECIES OF THE GENUS DIORYX BENSON FROM CHINA (PROSOBRANCHIA, MESOGASTROPODA, CYCLOPHORIDAE)

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Abstract This paper deals with a new species of the genus *Dioryx* collected from Guizhou Province, China. Type specimens are deposited in the Institute of Zoology, Chinese Academy of Science, China.

Dioryx maolan ensis sp. nov. (Figs. 1-6)

Holotype, alt. 5. 16 mm, diam. 4. 16 mm, diam. of aperture 1. 33 mm. Paratypes 6 specimens, alt. 4. 50-5. 33 mm, diam. 3. 5. 5. 16 mm, diam. of aperture 1. 00-1. 67 mm, collected from Madan Town, Libo County $(25^{\circ}03^{\circ}\text{ N},\ 108^{\circ}00^{\circ}\text{ E})$, Guizhou Province, China, 9 July 2001.

Shell small, dextral, thick, globose conoid. Whorls $3\frac{1}{2}$, moderately convex, spire high, body whorl very convex. Shell yellowish in colour, worn specimens asher white, surface with very distinct vertically thin ribbed line and growth line, protoconch smooth, without spiral line. Apex blunt. Suture deep, with a 0.83-1.00 mm worm form projection at suture of body whorl. Aperture circular, thick, with two lips, somewhat expanded and reflexed. Operculum circular, cuticular, yellow brown in colour, and the inner surface has papule form projection, and concentric circles lines indistinct visible in the surface. Umbilicus small, crevice

formed Jaw thin flake shaped, transparent, the surface with scale shaped structure. The radula tape shaped, circular, with 1 central tooth, and with 7 smaller cusps on apex; 2 lateral teeth, and with 5 smaller cusps on apex, 2 marginal teeth, and with 4 smaller cusps on apex.

This new species is similar to *Dioryx ruyangassis* Hu, Yin and Chen, 2004, but differs obviously from the latter in the small size; the shell with whorls $3\frac{1}{2}$, length 5. 16 mm, diam. 4. 16 mm; diam of aperture 1. 33 mm; surface of shell with very distinct vertically thin ribbed line and growth line, with a 0. 83-1. 00 mm worm from projection at suture of body whorl. Jaw thin flake shaped, transparent, the surface with scale shaped structure. The radula tape shaped, circular, with 1 central tooth, and with 7 smaller cusps on apex; 2 lateral teeth, and with 5 smaller cusps on apex; 2 marginal teeth, and with 4 smaller cusps on apex. The shell of the latter species with whorls $4\cdot4\cdot\frac{1}{2}$, length 7. 10 mm,

diam. 5.50 mm; diam of aperture 1.75 mm; with a 2.80 mm worm form projection at suture of body whorl.

Key words Prosobranchia, Mesogastropoda, Cyclophoridae, *Dionyx*, new species.

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